

Listing of the Claims:

The following is a complete listing of all the claims in the application, with an indication of the status of each:

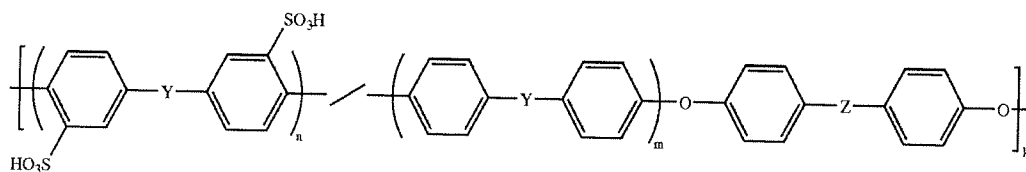
1. (Previously presented) A membrane electrode assembly, comprising:

an anode that includes a polymer;

a cathode that includes a polymer; and

a proton exchange membrane positioned between the anode and cathode, said proton exchange membrane includes a polymer,

wherein at least one of the anode, the cathode, and the proton exchange membrane comprises a sulfonated copolymer having the following chemical structure:



wherein;

$n/n+m$ ranges from about 0.001 to about 1, and $(n+m)/k = 1.01$ in moles;

Y may be -S-, S(O), S(O)₂, C(O), or P(O)(C₆H₅), and combinations thereof;

and

Z may be a direct carbon-carbon single bond, C(CH₃)₂, C(CF₃)₂, C(CF₃)(C₆H₅), C(O), S(O)₂, or P(O)(C₆H₅).

2. (Original) The membrane electrode assembly of claim 1, wherein at least one of the anode, the cathode, and the proton exchange membrane comprises an inorganic heteropoly acid.

3. (Previously presented) The membrane electrode assembly of claim 2, wherein the inorganic heteropoly acid is selected from the group consisting of phosphotungstic acid, phosphomolybdic acid, zirconium hydrogen phosphate, and a zirconium containing heteropoly acid.

4. (Original) The membrane electrode assembly of claim 2 wherein the inorganic heteropolyic ranges from about 0.01 to about 60% by weight.
5. (Original) The membrane electrode assembly of claim 1 wherein $n/n+m$ ranges from about 0.3 to about 0.6.
6. (Original) The membrane electrode assembly of claim 1, wherein Y is $S(O)_2$ and Z is a direct carbon-carbon single bond.
7. (Previously presented) The membrane electrode assembly of claim 1, wherein the proton exchange membrane and at least one of the anode and cathode comprise a sulfonated copolymer which is the same.
- 8-21. (Canceled)